PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicants or agentic file reference											
Applicant's or agent's file reference 62771A	FOR FURTHER A	CTION	See Form PCT/IPEA/416								
International application No. International filin PCT/US2004/003241 04.02.2004		(day/month/year)	Priority date (day/month/year) 05.02.2003								
International Patent Classification C08F255/02, C08F8/42	IPC) or national classification and	PC									
Applicant DOW GLOBAL TECHNOLOGIES INC. et al.											
This report is the internat Authority under Article 35	This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.										
2. This REPORT consists o	f a total of 5 sheets, including t	his cover sheet.									
l '	panied by ANNEXES, comprisi	_									
	ant and to the International Bure										
and/or sheets	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).										
☐ sheets which beyond the di Supplemental	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. Land the										
b. (sent to the Intern	ational Bureau only) a total of (i	ndicate type and number	of electronic carrier(s)) , containing a								
sequence listing a	nd/or tables related thereto, in equence Listing (see Section 8)	computer readable form o	inly as indicated in the Supplemental								
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	ations relating to the following i	tems:									
, 🖾 Box No. I Basis o	f the opinion										
☐ Box No. II Priority											
	tablishment of opinion with rega	ard to novelty, inventive s	tep and industrial applicability								
l <u> </u>	unity of invention										
	ed statement under Article 35(bility; citations and explanations	with regard to novelty, s supporting such statement	Inventive step or industrial ent								
l	documents cited										
🖾 Box No. VII Certain	defects in the international app	lication									
l	observations on the internation		•								
Date of submission of the demand		Date of completion of this	report								
30.08.2004		10.12.2004									
Name and mailing address of the ir	nternational	Authorized Officer									
preliminary examining authority: European Patent Off			Andrews Patenten								
D-80298 Munich		Wirth, M									
Tel. +49 89 2399 - 0 Fax: +49 89 2399 - 4		Telephone No. +49 89 23	99-8595								
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US2004/003241

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_	Box N	No. I Ba	sis of the repo	ort ·				
1.	With I	regard to unless ot	the language, herwise indicate	language, this report is based on the international application in the language in which it was rise indicated under this item.				
	☐ This report is based on translations from the original language into the following language , which is the language of a translation furnished for the purposes of:							
		 □ international search (under Rules 12.3 and 23.1(b)) □ publication of the international application (under Rule 12.4) □ international preliminary examination (under Rules 55.2 and/or 55.3) 						
2.	have	regard to the elements* of the international application, this report is based on (replacement sheets which been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this rt as "originally filed" and are not annexed to this report):						
	Descr	ription, Pa	ges					
	1-14		as originally filed	as originally filed				
	Claim	s, Numbe	rs					
	1-35		filed with telefax o	n 06.10.2004				
	Drawi	Drawings, Sheets						
	1/1			as originally filed				
	□ a	sequenc	e listing and/or	any related table(s)	- see Supplemental Box Relating to Sequen	ce Listing		
3.								
		the des	scription, pages ims. Nos.		•			
		☐ the dra	wings, sheets/ti quence listing <i>(s</i>					
				sequence listing (s	pecify):			
4.	had n	☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).						
		the des	scription, pages		•			
		☐ the dra	wings, sheets/fi					
			quence listing (sole(s) related to	specity): sequence listing <i>(s</i>	pecify):			
	* I	f item	4 applies,	some or all of	these sheets may be marked "supe.	rseded."		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US2004/003241

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No:

No:

1-35

Inventive step (IS)

Yes: Claims

Claims

Claims

1-35

Yes: Claims

1-35

Industrial applicability (IA)

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following documents:

D1: EP-A-0 300 718 (MITSUI PETROCHEMICAL IND) 25 January 1989 (1989-01-25)

D2: US-A-4 529 750 (GIMPEL FRANCO) 16 July 1985 (1985-07-16)

D3: US-A-5 741 858 (CREE STEPHEN H ET AL) 21 April 1998 (1998-04-21)

2. Novelty and inventive step (Art. 33(2) and (3) PCT).

D1 discloses a process in which a polyolefin polymer is grafted with a vinyl silane in the presence of a peroxide initiator. The graft polymer is spun into fibers and then moisture cured in the presence of a catalyst (see D1, example 1).

In D1, the ratio silane/free radical is not specified. In example 1, it is 38.2.

Present claims are therefore novel (Art 33(2) PCT).

The problem to be solved by the present application was to increase the speed of fiber production while maintaining their mechanical and thermal properties (application, page 3, lines 20-27).

The examples of the application show that this problem is solved for silane/radical ratios over 45. Inventive step is acknowledged because the claimed value is remote from the value in D1 and the obtained effect is derivable from examples 1 and 3 of the application (Art 33(3) PCT).

Re Item VII

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document D1 is not mentioned in the description, nor is this document identified therein.

Claim 1 lacks clarity (Art 6 PCT) because of the wording "silane material which can be

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

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described by the formula R-Si-R $^{\text{\tiny III}}$. It is not clear wether this feature is optional or not. The wording of claims 25 and 35 is clearer.

Claim 35 is the same as claim 25.